Amendments to the Claims:

Please amend Claim 1. Cancel Claims 8 and 9. The changes in Claim 1 are shown with strikethroughs for deleted matter and <u>underlines</u> for added matter. A complete listing of the claims with proper claim identifiers is set forth below.

- 1. (Currently Amended) A process for producing a vinyl polymer terminated with a group having a polymerizable carbon-carbon double bond comprising the steps of:
- a) obtaining a vinyl polymer by an atom transfer radical polymerization; and
- b) incorporating a group having a polymerizable carbon-carbon double bond at a terminal of said vinyl polymer in the presence of a stable free radical.
- 2. (Original) The process according to claim 1, wherein the group having the polymerizable carbon-carbon double bond in the vinyl polymer is represented by formula (1):

$$-OC(O)C(R^1)=CHR^2 \qquad (1)$$

(wherein R¹ and R² are the same or different and each represent hydrogen or an organic group having 1 to 20 carbon atoms).

- 3. (Original) The process according to claim 2, wherein in formula (1), R¹ and R² are the same or different and each represent hydrogen or a saturated or unsaturated hydrocarbon group having 1 to 10 carbon atoms.
- 4. (Previously Presented) The process according to claim 2, wherein in formula (1), R¹ and R² are the same or different and each represent hydrogen, methyl, phenyl, or 1-propenyl.
- 5. (Previously Presented) The process according to claim 1, wherein the vinyl polymer is a (meth)acrylic polymer.
- 6. (Original) The process according to claim 5, wherein the vinyl polymer is an acrylic ester polymer.

- 7. (Previously Presented) The process according to claim 1, wherein the vinyl polymer is a styrene polymer.
 - 8. (Cancelled).
 - 9. (Cancelled).
- 10. (Original) The process according to claim 9, wherein the atom transfer radical polymerization is performed using a complex of a metal selected from the group consisting of copper, nickel, ruthenium, and iron.
- 11. (Original) The process according to claim 10, wherein a copper complex is used.
- 12. (Previously Presented) The process according to claim 1, wherein the vinyl polymer is produced by polymerizing a vinyl monomer using a chain transfer agent.
- 13. (Previously Presented) The process according to claim 1, wherein the vinyl polymer is produced by reaction between a vinyl polymer having a terminal structure represented by formula (2):

$$-CR^3R^4X$$
 (2)

(wherein R³ and R⁴ each represent a group bonded to an ethylenically unsaturated group of a vinyl monomer, and X represents chlorine, bromine, or iodine), and a compound represented by formula (3):

$$M^{+}OC(O)C(R^{1})=CHR^{2}$$
 (3)

(wherein R^1 and R^2 are the same or different and each represent hydrogen or an organic group having 1 to 20 carbon atoms, and M^+ represents an alkali metal or quaternary ammonium ion).

14. (Previously Presented) The process according to claim 1, wherein the vinyl polymer is produced by reaction between a vinyl polymer terminated with a hydroxyl group and a compound represented by formula (4):

$XC(O)C(R^1)=CHR^2$ (4)

(wherein R¹ and R² are the same or different and each represent hydrogen or an organic group having 1 to 20 carbon atoms, and X represents chlorine, bromine, or a hydroxyl group).

15. (Previously Presented) The process according to claim 1, wherein the vinyl polymer is produced by reaction between a vinyl polymer terminated with an isocyanate group and a compound represented by formula (5):

$$HO-R^5-OC(O)C(R^1)=CHR^2$$
 (5)

(wherein R¹ and R² are the same or different and each represent hydrogen or an organic group having 1 to 20 carbon atoms, and R⁵ represents a divalent organic group having 2 to 20 carbon atoms).

- 16. (Previously Presented) The process according to claim 1, wherein the vinyl polymer has a number-average molecular weight of 2,000 or more.
- 17. (Previously Presented) The process according to claim 1, wherein the vinyl polymer has a ratio (Mw/Mn) of a weight-average molecular weight (Mw) to a number-average molecular weight (Mn) of less than 1.8 according to gel permeation chromatographic measurement.